

Notice of Allowability**Application No.**

10/661,167

Examiner

ALEX GOFMAN

Applicant(s)

SMIRNOV ET AL.

Art Unit

2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Arguments filed 1-26-11.
2. ☒ The allowed claim(s) is/are 32, 37-42, 44, 48, 50-52, 56, 59, 65-66 and 68 renumbered as 1-17.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 20110324.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION
EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The following has been authorized for this examiner's amendment, which was given in a telephone interview with Mark Mathison (57,556) on March 17, 2011.

The following claims have been amended:

Claims 33-36, 43, 45, 60, 67 have been cancelled.

32. A method of transforming data, the method comprising:
positioning a definition pointer to point at a first compound transform definition within a transform definition file;
invoking a first parallel processing thread to read the pointed at first compound transform definition;

searching data to be transformed for a data element to be transformed, the search being responsive to the first compound transform definition;

calling a dynamic function defined in the transform definition file, the dynamic function located elsewhere in the transform definition file from the definition pointer position;

transforming any found data element into an output data file, responsive to the first compound transform definition and called dynamic function, a data structure of the output data file being responsive to a data structure of the first compound transform definition;

determining a type of the read first compound transform definition;

based on determination that the first compound transform definition is compound, processing each sub-definition of the read first compound transform definition by repeating positioning, invoking, searching, calling, and transforming for each sub-definition in order to transform each sub-definition recursively, wherein the data elements transformation includes nesting of a data element;

determining if all sub-definitions of the first compound transform definition have been processed;

positioning a definition pointer to point at a second compound transform definition within the transform definition file;

invoking a second parallel processing thread to read the pointed at second compound transform definition;

searching data to be transformed for another data element to be transformed, the search being responsive to the second compound transform definition;~~and~~

transforming any found data element into the output data file, responsive to the second compound transform definition, the data structure of the output data file being responsive to the data structure of the second compound transform definition;and

if no data element is found to be transformed, adding one or more output data elements to the output data file responsive to the read first compound transform definition, the data to be transformed having no contribution to the output data element.

44. A method of transforming data, the method comprising:

positioning a definition pointer to point at a first compound transform definition, the first compound transform definition being within a transform definition file;

invoking a first parallel processing thread to read the pointed at first compound transform definition and sub-definitions of the first compound transform definition;

positioning a first payload pointer to point at a first data element to be transformed, the positioning of the first payload pointer being responsive to a data structure of the first compound transform definition;

calling a dynamic function defined in the transform definition file, the dynamic function located elsewhere in the transform definition file from the definition pointer position;

transforming the first data element into an output data file, responsive to the read first compound transform definition and called dynamic function;

determining a type of the read first compound transform definition;
based on determination that the first compound transform definition is compound, processing each sub-definition of the read first compound transform definition by repeating positioning, invoking, positioning, calling, and transforming for each sub-definition in order to transform each sub-definition recursively, wherein the data elements transformation includes nesting of a data element;

determining if all sub-definitions of the first compound transform definition have been processed;

positioning the definition pointer to point at a second compound transform definition, the second compound transform definition being within the transform definition file;

invoking a second parallel processing thread to read the pointed at second compound transform definition and sub-definitions of the second compound transform definition;

positioning a second payload pointer to point at a second data element to be transformed, the positioning of the second payload pointer being responsive to a data structure of the second compound transform definition; ~~and~~

transforming the second data element into the output data file, responsive to the read second compound transform definition; and

if no first or second data element is found to be transformed, adding one or more output data elements to the output data file responsive to the read first compound transform definition, the data to be transformed having no contribution to the output data element.

59. A computer readable storage media having embodied thereon data, the data comprising:

computer instructions configured to position a definition pointer to point at a first compound transform definition, the first compound transform definition being within a transform definition file;

computer instructions configured to invoke a first parallel processing thread to read the pointed at first compound transform definition and sub-definitions of the first compound transform definition;

computer instructions configured to position a first payload pointer to point at a first data element to be transformed, the positioning being responsive to a data structure of the first compound transform definition;

computer instructions configured to call a dynamic function defined in the transform definition file, the dynamic function located elsewhere in the transform definition file from the definition pointer position;

computer instructions configured to transform the first data element into an output data file, responsive to the read first compound transform definition and called dynamic function;

computer instructions configured to determine a type of the read first compound transform definition;

based on determination that the first compound transform definition is compound, computer instructions configured to process each sub- definition of the read first compound transform definition by repeating positioning, invoking, positioning, calling, and transforming for each sub-definition in order to transform the each sub-definition recursively, wherein the data elements transformation includes nesting;

computer instructions configured to determine if all sub-definitions of the first compound transform definition have been processed;

computer instructions configured to position a second payload pointer to point at a second data element to be transformed, the positioning being responsive to a data structure of the second compound transform definition;

computer instructions configured to invoke a second parallel processing thread to read the pointed at second compound transform definition and sub-definitions of the second compound transform definition; and

computer instructions configured to transform the second data element into the output data file, responsive to the read second compound transform definition; and

if no first or second data element is found to be transformed, computer instructions configured to add one or more output data elements to the output data file responsive to the read first compound transform definition, the data to be transformed having no contribution to the output data element.

65. (Currently amended): An application system comprising:

a computing device comprising: [[:]]

a memory; and

at least one processor operatively coupled to the memory, the at least one processor configured to:

position a definition pointer to point at a first compound transform definition within a transform definition file;

invoke a first parallel processing thread to read the pointed at first compound transform definition;

search data to be transformed for a data element to be transformed, the search being responsive to the first compound transform definition;

call a dynamic function defined in the transform definition file, the dynamic function located elsewhere in the transform definition file from the definition pointer position;

transform any found data element into an output data file, responsive to the first compound transform definition and called dynamic function, a data structure of the output data file being responsive to a data structure of the first compound transform definition;

determine a type of the read first compound transform definition;
based on determination that the first compound transform definition is compound, process each sub-definition of the read first compound transform definition by repeating positioning, invoking, searching, calling, and transforming for each sub-definition in order to transform the each sub-definition recursively, wherein the data elements transformation includes nesting of a data element;

determine if all sub-definitions of the first compound transform definition have been processed;

position a definition pointer to point at a second compound transform definition within the transform definition file;

invoke a second parallel processing thread to read the pointed at second compound transform definition;

search data to be transformed for another data element to be transformed, the search being responsive to the second compound transform definition;

transform any found data element into the output data file, responsive to the second compound transform definition, the data structure of the output data file being responsive to the data structure of the second compound transform definition; and

if no data element is found to be transformed, add one or more output data elements to the output data file responsive to the read first compound transform definition, the data to be transformed having no contribution to the output data element

means for positioning a definition pointer to point at a first compound transform definition within a transform definition file;

means for invoking a first parallel processing thread to read the first compound transform definition by the computing device;

means for calling a dynamic function defined in the transform definition file, the dynamic function located elsewhere in the transform definition file from the definition pointer position;

means for positioning the definition pointer to point at a second compound transform definition within the transform definition file;

means for invoking a second parallel processing thread to read the second compound transform definition by the computing device;

means for positioning a payload pointer to point to a first data element, the first data element being a member of a plurality of data elements within data to be transformed; and

means for generating an output data file using the first data element and the first and second compound transform definitions;

wherein the means for positioning the definition pointer and the means for positioning the payload pointer are enabled to be invoked concurrently.

66. (Currently Amended): The application system of claim 65, ~~further including means for selecting wherein the~~ at least one processor is further configured to select the transform definition file from a set of transform definitions files, responsive to data associated with the data to be transformed.

68. (Currently Amended): The application system of claim 65, ~~further including means for adding wherein the at least one processor is further~~ configured to add data to the output data file, the added data being configured responsive to the transform definition file and having no contribution from the data to be transformed.

ALLOWANCE

Claims 32, 37-42, 44, 48, 50-52, 56, 59-60, 65-66 and 68 are allowed over the prior art made of record.

The following is an examiner's statement of reasons for allowance:

The cited prior art of record, Lee (US Patent Application Publication 2002/0129024), Chung et al (US Patent 6,850,947), and Micco et al (US Patent Application Publication 2003/0056203), does not disclose, teach or suggest the claimed invention (in combination with all other features in the claims) with respect to Independent Claims 32, 44, 59 and 65:

"based on determination that the first compound transform definition is compound, processing each sub-definition of the read first compound transform definition by repeating positioning, invoking, positioning, calling, and transforming for each sub-definition in order to transform each sub-definition recursively, wherein the data elements transformation includes nesting of a data element."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX GOFMAN whose telephone number is (571)270-1072. The examiner can normally be reached on Mon-Fri 9am-3pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571)272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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3-24-11
AG

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